



**SUMMARY TEST DATA
ON
SDLVA-418-65-16MV-12DBM**

PL32611/2126

Customer: _____	Tested By: <u>J. Emperador</u>		
SO No: _____	Temperature: <u>+25°C</u>		
Model No: <u>SDLVA-418-65-16MV-12DBM</u>	Date: <u>07/02/2021</u>		
Serial No: <u>PL32611/2126</u>	Drawing No: <u>27624783</u>	Rev: <u>A1</u>	

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC	
1	Frequency Range	4 GHz to 18 GHz	4 GHz to 18 GHz	PMI QA3	
2	TSS	-64 dBm max	-64.5 dBm		
3	Input Power Handling	+20 dBm	+20dBm		
4	Video Log Range	-55 dBm to +10 dBm	-55 to +10dBm		
5	Output Harmonics	-9 dBc	Pass		
6	Video Log Linearity	+2.2 dB	+1.58dB -1.11dB		
7	Video Log Slope	16.0 ±2.0 mV/dB nom	16.1mV/dB ±0.60dB		
8	Video Freq Flatness	±4 dB max	±2.4 dB		
9	Pulse Width Range	25 nsec to CW	PASS		
10	Video Rise Time	10 nsec max	5.3 nsec		PMI QA3

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PL32610/2126

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
11	Video Fall Time	15 nsec max	12.3 nsec	PMI QA3
12	Recovery Time	30 nsec max	20.7 nsec	
13	Delay	<2 nsec	<2 nsec	
14	Video Output Impedance	50Ω	Pass	
15	RF In/Out Impedance	50Ω	Pass	
16	Input VSWR (50Ω)	2.0:1 max	1.71:1	
17	DC Supply	+12 V @ 850 mA -12 V @ 250 mA	550 mA 30 mA	PMI QA3

QA/QC Approval: _____

Date: _____

7/2/21

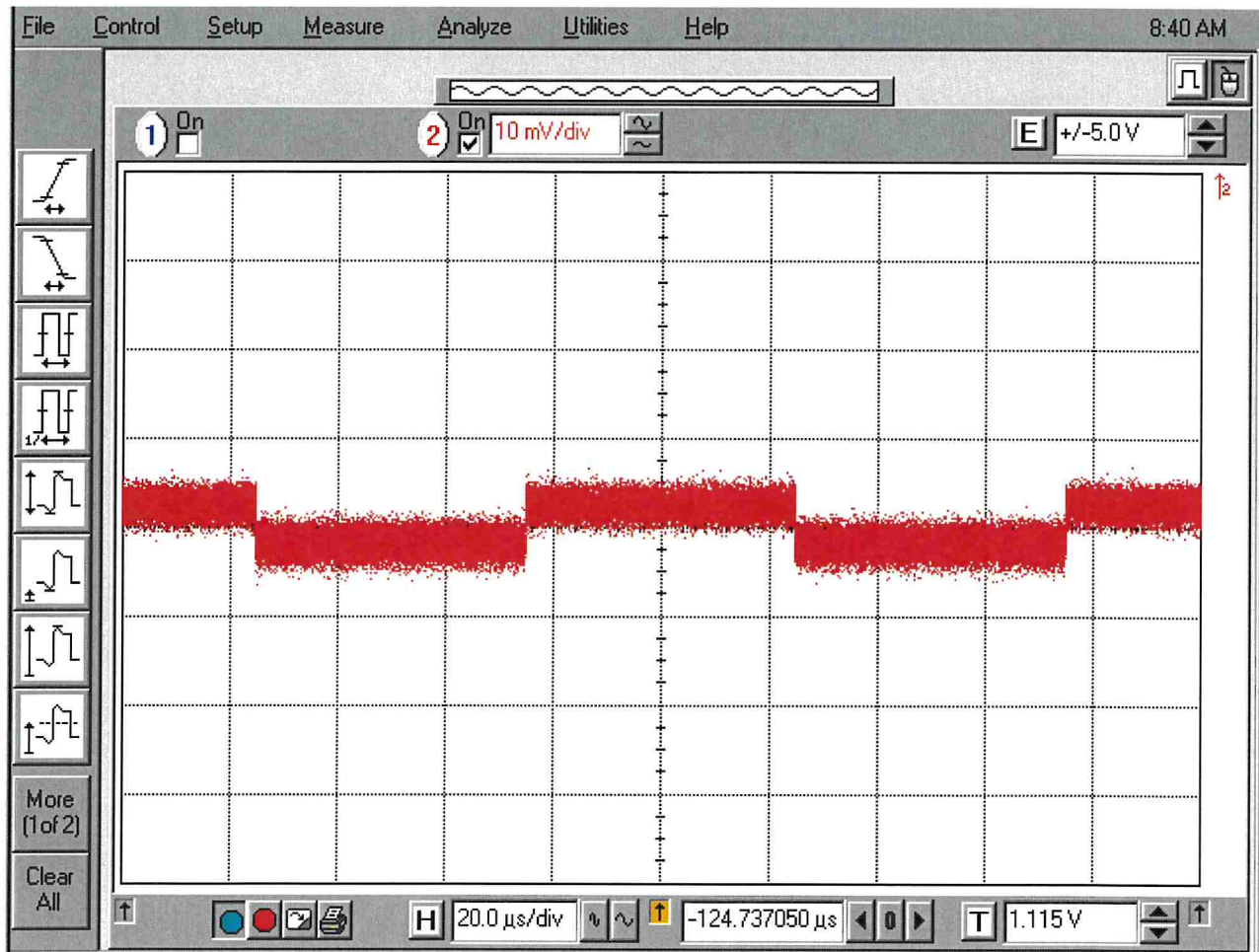
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TSS





**SUMMARY TEST DATA
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VIDEO LOG LINEARITY

<p>MODEL: SDLVA-418-65-16MV-12DBM SERIAL NO: PL32610 DATE: 07/02/2021 TESTED BY: J.EMPERADOR</p>															<p>Test Temp: +25C</p>					<p>PLANAR MONOLITHICS INDUSTRIES 4921 Robert J. Mathews Parkway Suit 1 El Dorado Hills, CA 95762 TEL: 916-542-1401 FAX: 916-265-2597 EMAIL: SALES@PMI-RF.COM</p>										
GRAPH #1																														
Video Output Voltage With No RF -0.082																														
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">-55</td><td style="width: 10%;">-50</td><td style="width: 10%;">-45</td><td style="width: 10%;">-40</td><td style="width: 10%;">-35</td><td style="width: 10%;">-30</td><td style="width: 10%;">-25</td><td style="width: 10%;">-20</td><td style="width: 10%;">-15</td><td style="width: 10%;">-10</td><td style="width: 10%;">-5</td><td style="width: 10%;">0</td><td style="width: 10%;">5</td><td style="width: 10%;">10</td> </tr> </table>															-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	RF Input Power (dBm)	
-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10																	
Frequency																														
4 GHz	INTERCEPT (mV)	-972.9	-137	-197	-296	-385	-469	-538	-611	-684	-757	-823	-900	-979	-1044	-1093	Measured Value (mV)		Error(dB)											
	SLOPE (mV/dB)	-14.9	14	29	4	-10	-19	-13	-12	-10	-8	0	-2	-6	4	29	Error (mV)		MAX	MIN										
			-0.93	-1.92	-0.30	0.66	1.28	0.90	0.78	0.67	0.55	-0.03	0.12	0.41	-0.24	-1.96	LINEARITY ERROR (dB)		1.28	-1.96										
7.5 GHz	INTERCEPT (mV)	-967.1	-143	-206	-298	-371	-448	-522	-600	-673	-746	-813	-885	-969	-1049	-1107	Measured Value (mV)		Error(dB)											
	SLOPE (mV/dB)	-15.0	2	14	-4	-2	-4	-3	-7	-5	-3	5	7	-2	-7	10	Error (mV)		MAX	MIN										
			-0.12	-0.91	0.25	0.13	0.28	0.23	0.45	0.33	0.21	-0.31	-0.49	0.13	0.48	-0.64	LINEARITY ERROR (dB)		0.48	-0.91										
11 GHz	INTERCEPT (mV)	-971.7	-120	-162	-242	-333	-417	-504	-586	-656	-732	-806	-889	-976	-1060	-1122	Measured Value (mV)		Error(dB)											
	SLOPE (mV/dB)	-15.9	-21	16	16	4	-1	-8	-11	-2	2	7	3	-4	-9	8	Error (mV)		MAX	MIN										
			1.33	-1.02	-0.98	-0.25	0.05	0.53	0.69	0.11	-0.10	-0.44	-0.21	0.27	0.57	-0.53	LINEARITY ERROR (dB)		1.33	-1.02										
14.5 GHz	INTERCEPT (mV)	-979.7	-117	-158	-239	-349	-430	-504	-582	-652	-729	-812	-904	-991	-1070	-1128	Measured Value (mV)		Error(dB)											
	SLOPE (mV/dB)	-16.0	-19	20	19	-11	-12	-5	-3	7	10	7	-4	-11	-10	12	Error (mV)		MAX	MIN										
			1.20	-1.24	-1.19	0.67	0.72	0.33	0.20	-0.44	-0.64	-0.46	0.28	0.70	0.63	-0.76	LINEARITY ERROR (dB)		1.20	-1.24										
18 GHz	INTERCEPT (mV)	-917.1	-113	-150	-226	-338	-417	-489	-562	-621	-684	-753	-832	-917	-1000	-1066	Measured Value (mV)		Error(dB)											
	SLOPE (mV/dB)	-14.8	-12	26	24	-14	-19	-17	-16	0	11	16	11	0	-9	-1	Error (mV)		MAX	MIN										
			0.78	-1.72	-1.60	0.95	1.28	1.13	1.06	0.03	-0.72	-1.07	-0.74	-0.01	0.59	0.04	LINEARITY ERROR (dB)		1.28	-1.72										
Flatness +/- dB			1.00	1.80	2.30	1.70	1.70	1.60	2.10	2.40	2.30	2.30	2.40	2.30	2.00															
Max Video Output Volts			-0.113	-0.150	-0.226	-0.333	-0.417	-0.489	-0.562	-0.621	-0.684	-0.753	-0.832	-0.917	-1.000	-1.066														
Min Video Output Volts			-0.143	-0.206	-0.298	-0.385	-0.469	-0.538	-0.611	-0.684	-0.757	-0.823	-0.904	-0.991	-1.070	-1.128														
Log Slope Average: mV/dB																-15.3														
Log Slope Variation: ± mV/dB																0.60														

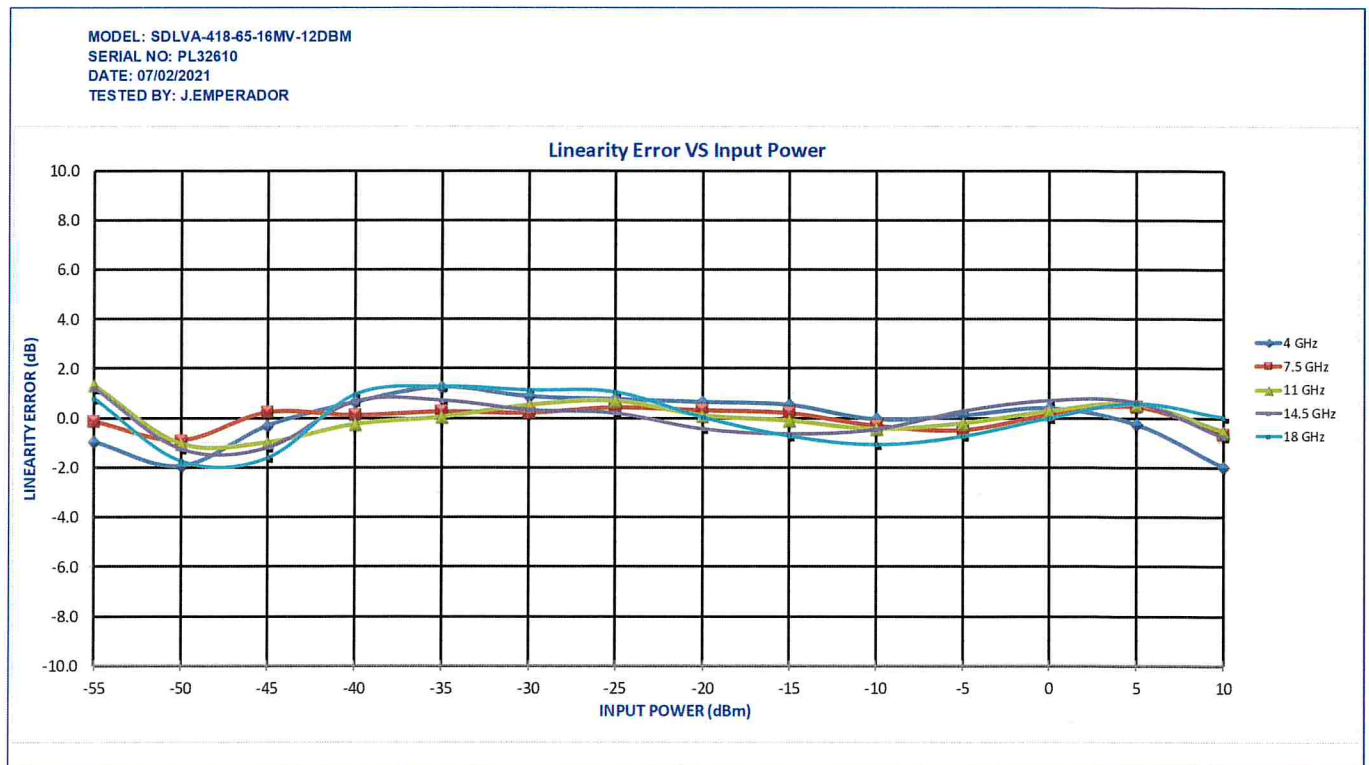
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VIDEO LOG LINEARITY



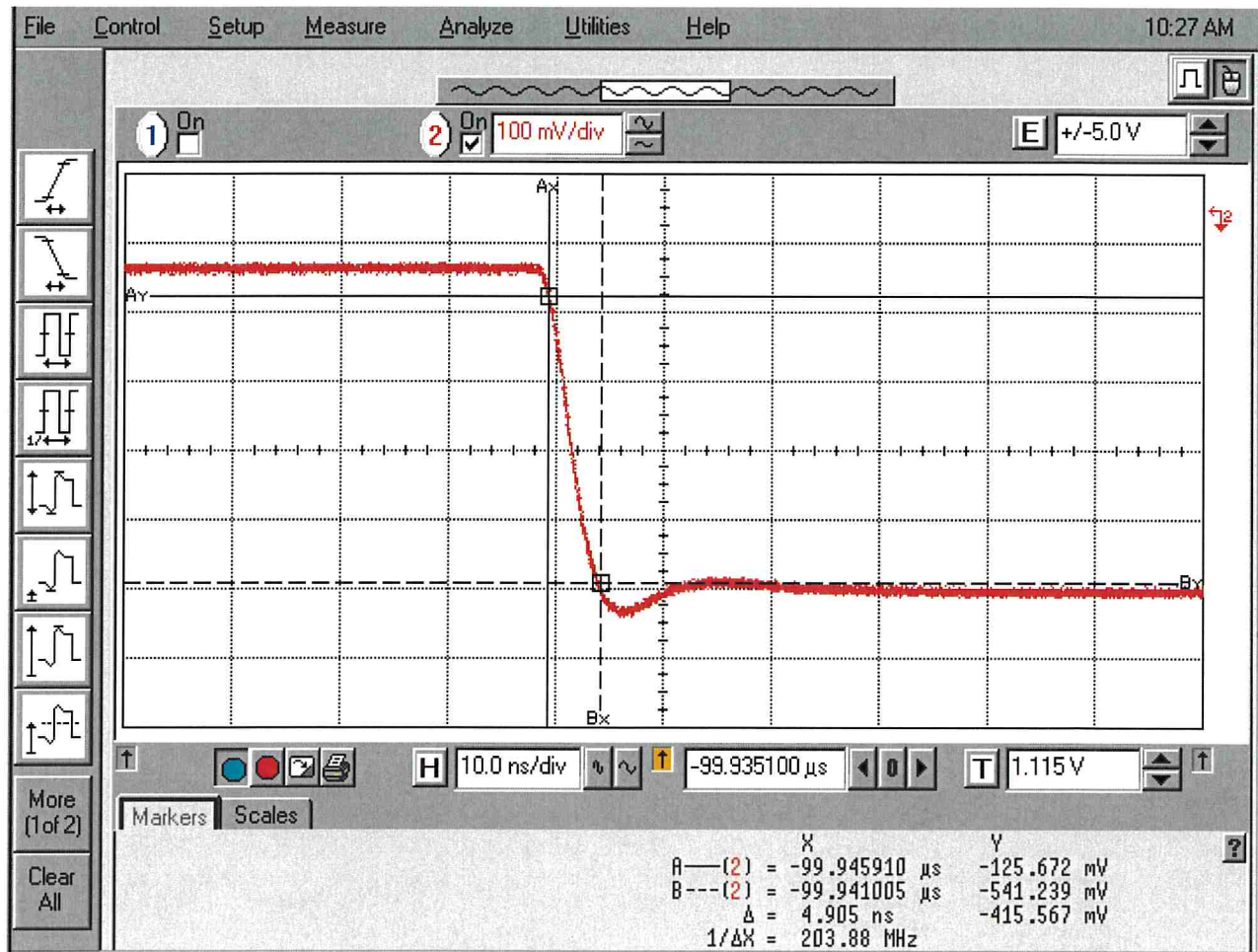
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RISE TIME



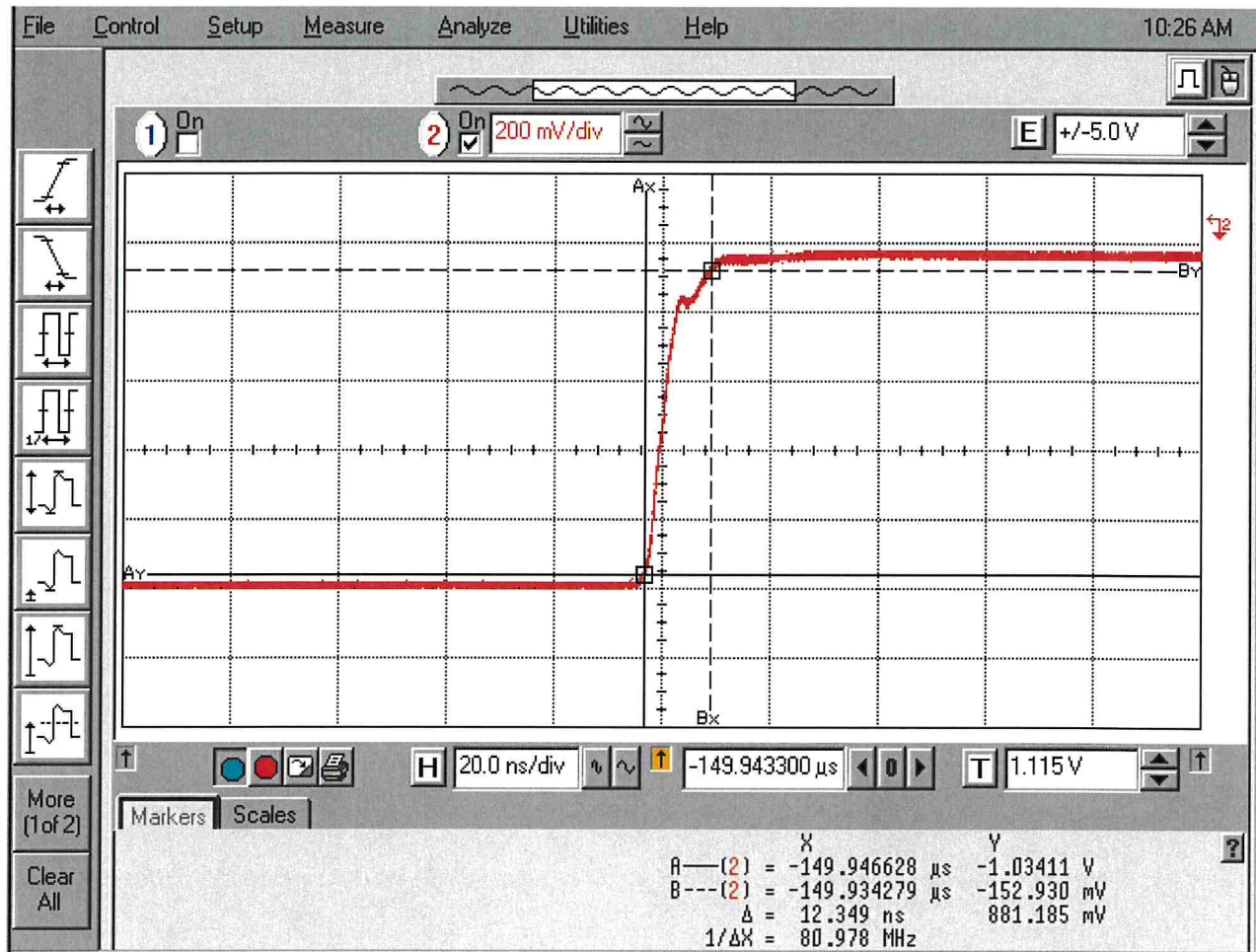
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VIDEO FALL TIME



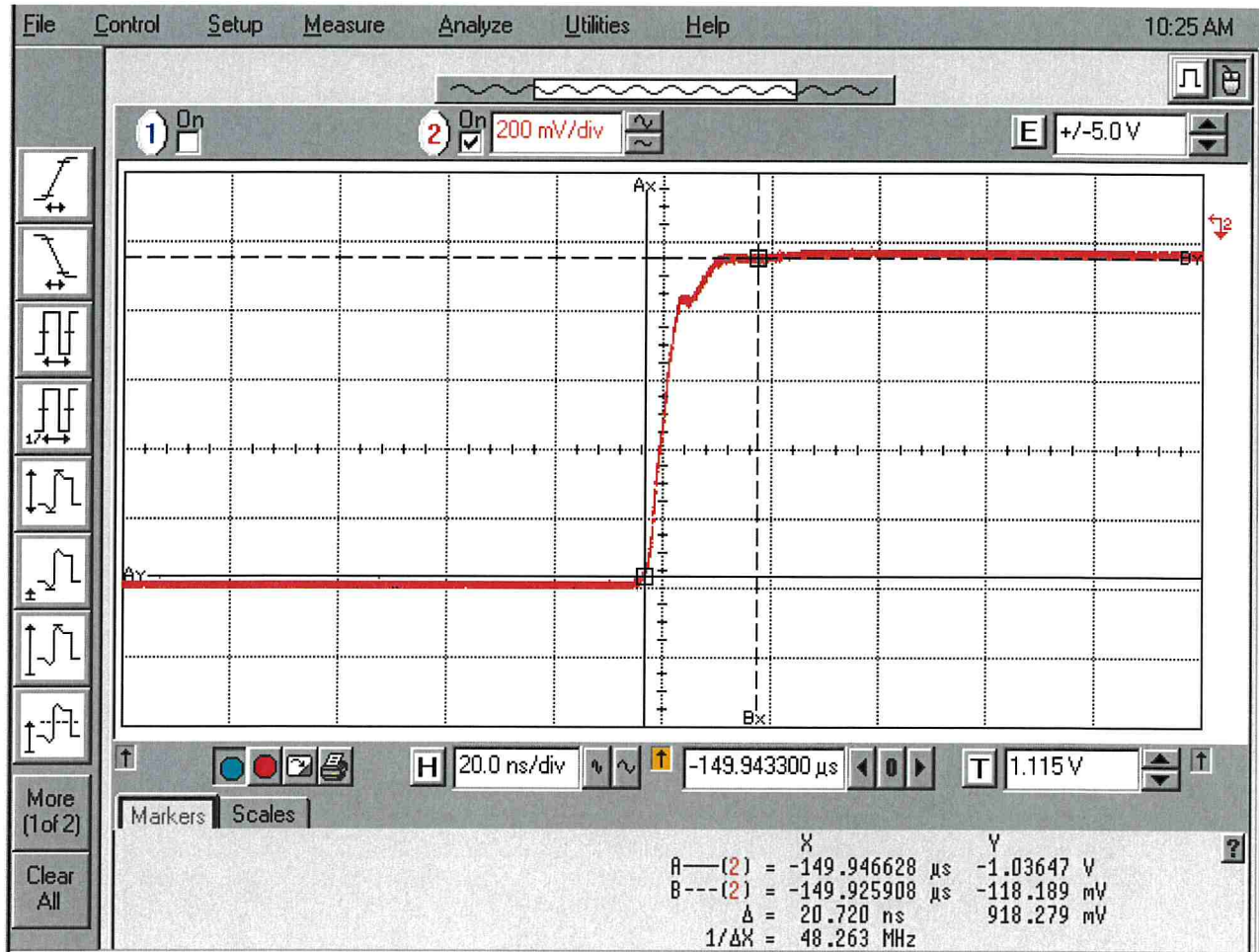
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VIDEO RECOVERY TIME



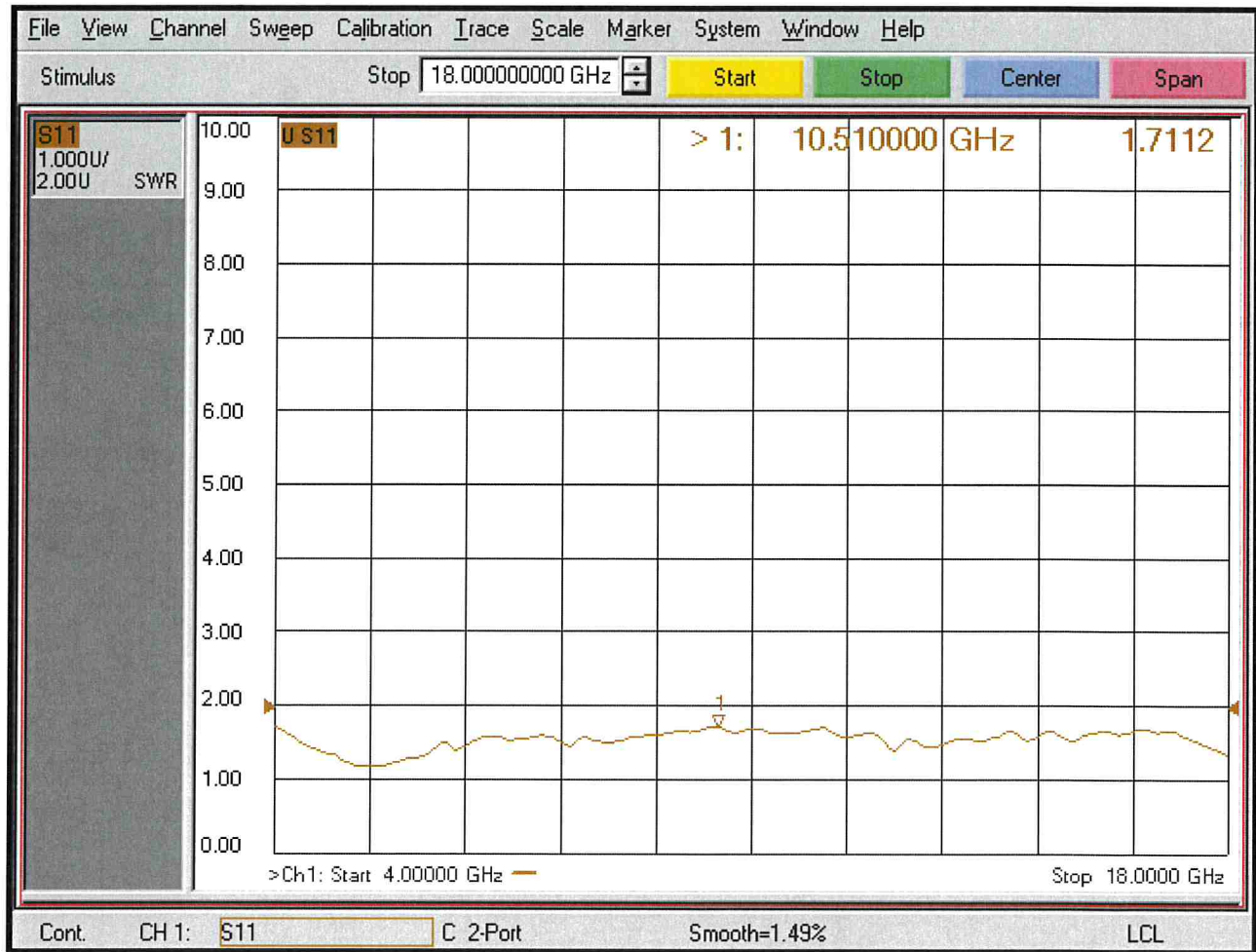
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INPUT VSWR



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